

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-10 (Canceled):

Claim 11 (New): A process for winding a continuously supplied band (5) onto a bobbin (2), with the bobbin (2) being rotated and the band (5) being reciprocated along the entire length of the bobbin (2) at a winding angle (α) by means of a cross-winding device (4), wherein each time the bobbin diameter has increased by a particular value, the winding ratio, i.e. the ratio between the number of bobbin rotations and the reciprocating motion (to-and-fro stroke) of the crosswinding device, is changed in steps, characterized in that the bobbin (2) is driven by a separate motor (M1) and the cross-winding device (4) is also driven by a separate motor (M2) and the change in the winding ratio is performed electronically by stepwisely changing the ratio of the speeds of the two motors and that, with the stepwise change, the winding ratio is changed in essentially integral steps so that, with each change, the post-decimal point part of the winding ratio will change by 0.1 at the most, preferably 0.03 at the most, more preferably 0.01 at the most.

Claim 12 (New): A winding process according to claim 1, characterized in that, with each change in the winding ratio, the post-decimal point part of said ratio is changed to such a degree that a constant partial overlap with an underlying band track will result, wherein an axial shift d to the extent of the desired constant partial overlap is selected and the winding ratio is calculated from the following formula:

$$V = \frac{na \times 2L \times (Vz + l/na)}{na \times 2L - d}$$

wherein the following applies:

V = winding ratio (f.i. rounded to four decimal places)

Vz = winding-ratio number (integral, selected pre-decimal point part of winding ratio **V**)

na = tie number (integral, number of to-and-fro strokes at which the defined shift **d** is supposed to occur)

L = winding length of the bobbin in mm ($2L \rightarrow$ to-and-fro stroke)

d = shift in mm (along the winding axis)

Claim 13 (New): A winding process according to claim 1, characterized in that the post-decimal point part of the winding ratio is at least two-digit and preferably is close to 0 or 0.50 or 0.33 or 0.25.

Claim 14 (New): A winding process according to claim 1, characterized in that the winding ratio is changed such that a forward or backward-moving band winding is created.

Claim 15 (New): A winding process according to claim 1, characterized in that the winding ratio is changed such that the resulting winding angle (α) will stay within a predetermined band width.

Claim 16 (New): A winding process according to claim 1, characterized in that the motors (M1, M2) are rotary-current drives with frequency converters or direct-current drives.

Claim 17 (New): A winding process according to claim 1, characterized in that the instantaneous bobbin diameter is calculated from a variance comparison of the linear band speed and the number of bobbin rotations.

Claim 18 (New): A winding process according to claim 2, characterized in that, depending on the winding angle (α), the shift **d** is selected such that an overlap of bands of appx. $\frac{1}{2}$ a bandlet width **b** emerges.